

# **PHENIX WEEKLY PLANNING**

11/9/06

Don Lynch

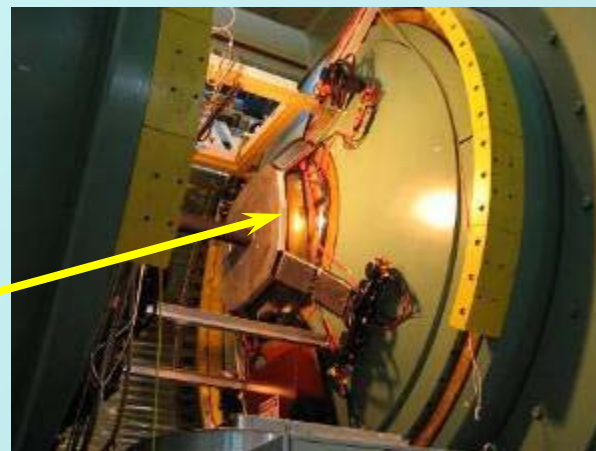
# Ready for Commissioning

## New Detectors

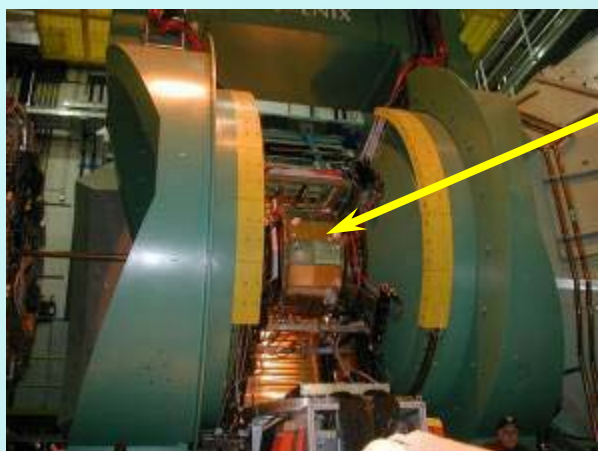
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TOF West



RXNP



HBD



MPC North



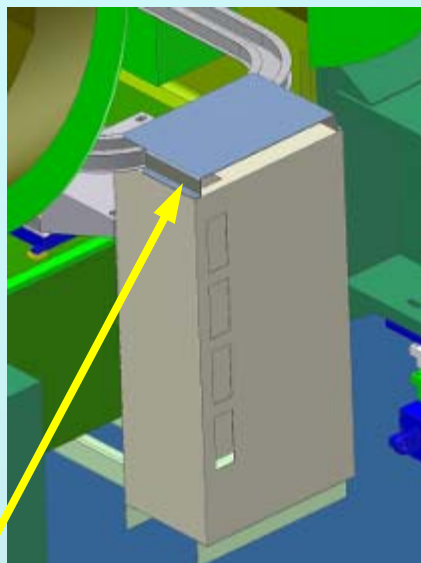
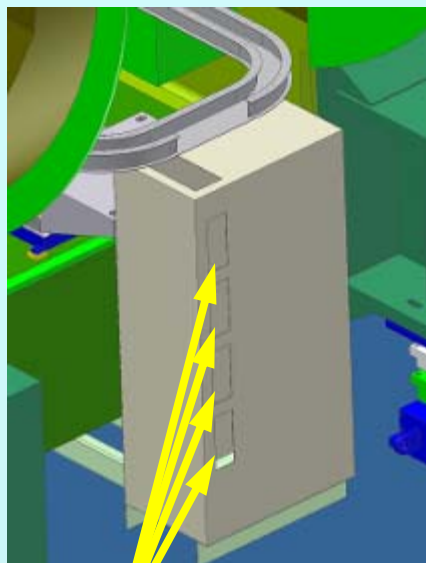
# New Detectors Services



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# HBD Signal Rack

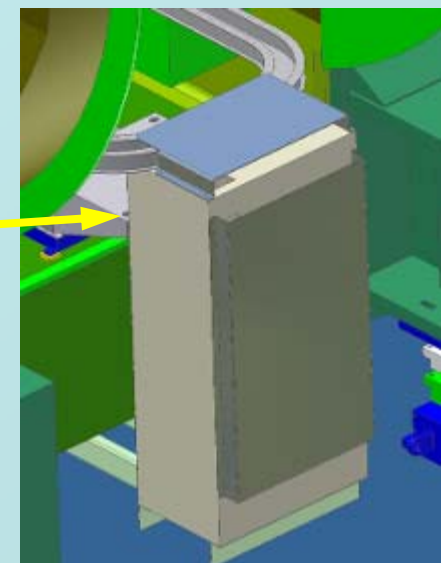
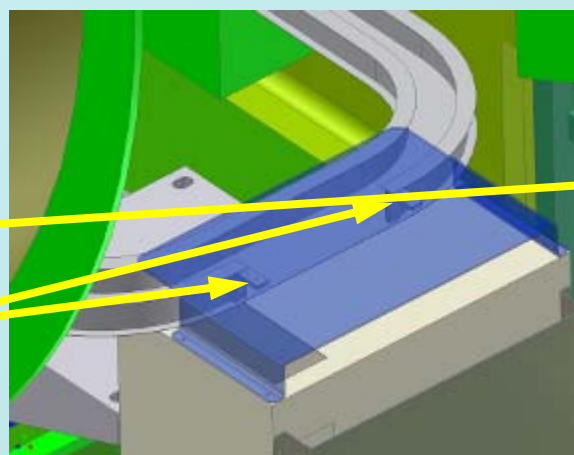
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Cutouts Done  
Cable Cover waiting for material

"Chimney" Done

Mounting Brackets Done



11/9/06

Weekly Planning Meeting

# HBD (Hadron Blow Drier)

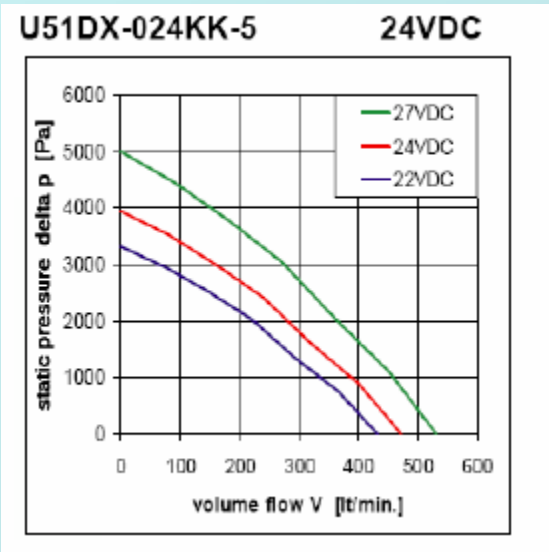
## Electronics Cooling



*Order in Process,  
Finally ! Rec. ~ 2 weeks ?*

### Still Needed for Approval to Operate:

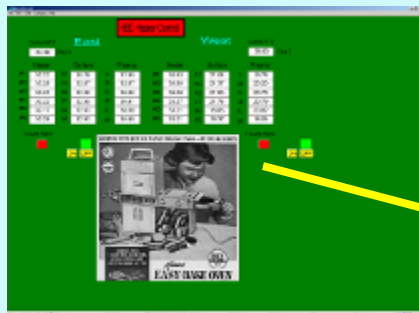
- Where will fan(s) be mounted? - *CM base "cubby hole" fan model and specs to be forwarded to Safety*
- Written design and operation description and- *To be forwarded to Safety*
- Order for 5 blowers & drivers (4 +1 spare) is in the works



Blower requirements:  
5 cfm (142 l/min)  
@ 5 in WC (1245 Pa)

# HBD "EBO" Heaters

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# Subsystem Maintenance & Repairs

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- EMCal West & East Done
  - DC HV/LV patch panel upgrade & wire repair Done
  - MPC South repaired
  - BBC South & North repairs done
  - MuTr grounding problems Fixed
  - MuTr North and South HV/FEE troubleshooting ~ Done..Dry air distribution balancing ongoing
  - RICH light leak ~
  - PC HV module/cable maintenance done
  - TEC upgrades done
  - MuID survey 11/15/06
  - MuID commissioning next month after flammable gas is on



CAD/RHIC PHENIX infrastucture related  
mechanical and electrical support

Roof leak repairs

MuID survey

Door Latch maintenance for security

Run 7 prep support



# Infrastructure Work

?

Nov 06

Requested

Nov-Dec



# Remaining Schedule

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	Start	Complete
TOF West, RXNP, MPC N		
Electronics Installation/Commissioning	in progress	11/30/06
HBD		
HBD drying heater system commissioning	10/25/06	11/15/06
HBD preamp cooling system	10/1/06	11/30/06
(temporary LN2 system in-place)		
Electronics Installation/Commissioning	11/1/06	11/30/06
MuID survey	10/23/06	11/30/06
MuID commissioning	12/11/06	12/18/06

# Remaining Schedule (cont'd)

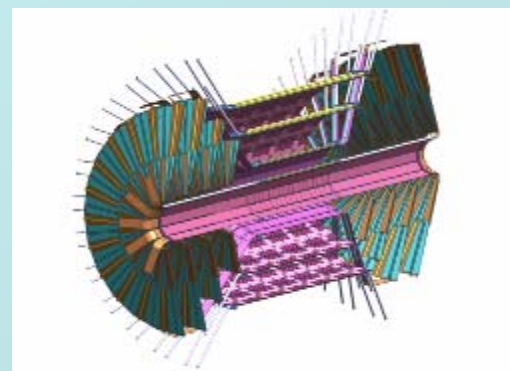
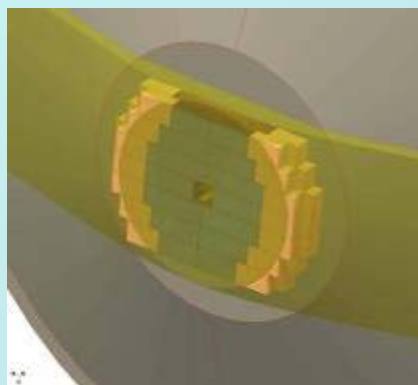
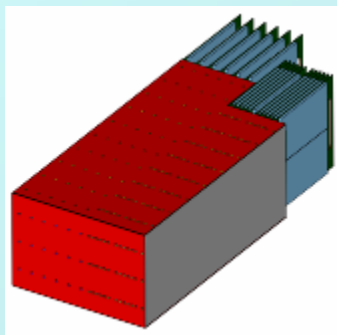
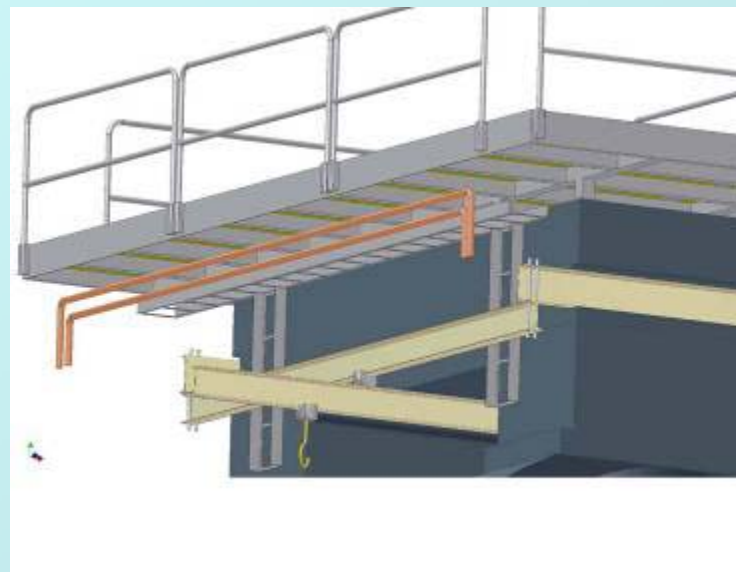
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	Start	Complete
<b>East carriage roll in &amp; setup</b>		
Prepare IR & EC for move to IR/move cart, manlifts, collars	1-Nov	3-Nov
EC Roll in	6-Nov	6-Nov
Install EC Ladder	8-Nov	8-Nov
Install EC rear access & ext.	8-Nov	8-Nov
Connect EC services	6-Nov	10-Nov
<b>Pink Sheeting &amp; Blue Sheeting</b>	13-Nov	1-Dec
<b>Move MMS full North/Install beam pipe collar</b>	20-Nov	21-Nov
<b>Rebuild Rolling door</b>	20-Nov	30-Nov
<b>Close rolling door</b>	1-Dec	1-Dec
<b>Start Flammable Gas Flow</b>	5-Dec	5-Dec
<b>All Up Commissioning</b>	5-Dec	18-Dec
<b>RHIC Cooldown Begins</b>	8-Dec	8-Dec
<b>Beam in yellow ring</b>	18-Dec	18-Dec
<b>Beam in blue ring</b>	25-Dec	25-Dec
<b>RHIC beam conditioning</b>	25-Dec	31-Dec
<b>Shutdown Concluded/Start of Physics Run</b>	1-Jan	1-Jan

## Technical Support 2006

### What's up for next year and beyond

- New CM Crane
- New Beam pipe design
- Muon RPC trigger design
- VTX/FVTX design
- NCC design
- MuTr upgrade ?
- Infrastructure improvements



# SEU Test

## John Lajoie Iowa State

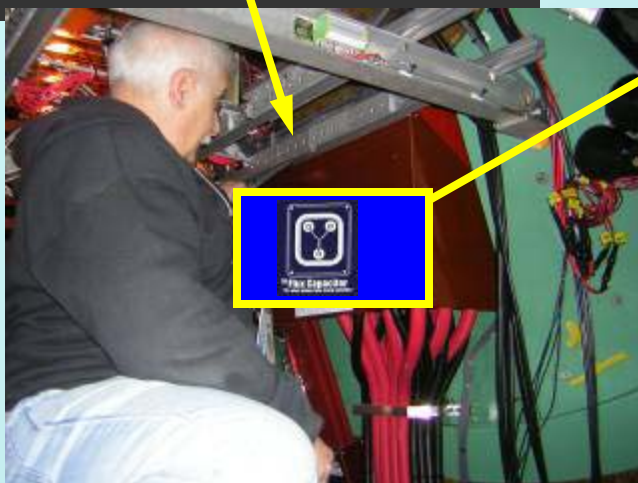
### Experimental Impact Statement

- The box dimensions are: 17" x 10" x 3.5".
- The only services required by the box in order to function are AC power and a Cat5 cable connected to the USB interface.
- The FPGA devices will be programmed and monitored over an external USB connection, which is run over a USB -> Cat5 extender box. This extender has a maximum range of 150 feet of Cat5 cable, which should be sufficient to reach from the PHENIX IR to the rack room, where it will connect to a laptop containing the analysis and configuration software. (The laptop will require network access, and will comply fully with all BNL cybersecurity requirements.)
- Because SEU events are relatively rare, it would be best to expose the apparatus to as high a particle flux as possible. However, the box represents a substantial amount of material and it would be unacceptable to place the box within the acceptance of the central arms. Placement within one of the muon arms, near or on the central magnet pole, would be optimal.

# SEU Test

## John Lajoie Iowa State

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Current proposed location for test box. To be oriented with long side of box perpendicular to ebeam orbit direction (z).

# PHENIX Annual Safety Review Follow Up

- No major problems/no critical action items
- Provide as-built drawings and procedures for new gas systems (TOF W and HBD)
- Provide documentation on carpet runner/bridge floor barrier to J. Levesque for review (DONE - Approved)
- Comprehensive review of PHENIX procedures, revise where necessary, retire where appropriate

# Next Week

- Pink sheets/white sheets/ blue sheets
- HBD, TOF W, RXNP, MPC N electronics commissioning
- HBD signal rack chimney
- HBD & TOF W mixing house gas control systems
- MuID survey ~Wednesday-Friday
- PHENIX Procedure review

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# Where To Find PHENIX Technical Info



Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:

[http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL\\_SSint-page.htm](http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm)